Name: Date:

Check if Relation is a Function (12 pts classwork, version 30)

1. A relation is expressed as a list of (x, y) ordered pairs.

$$(5, 9) \quad (4, 1) \quad (4, 2) \quad (2, 3) \quad (5, 9)$$

- Is this list consistent with y being a function of x? Why or why not?

no

- Is this list consistent with x being a function of y? Why or why not?

yes

- Is this list consistent with a one-to-one function? Why or why not?

no

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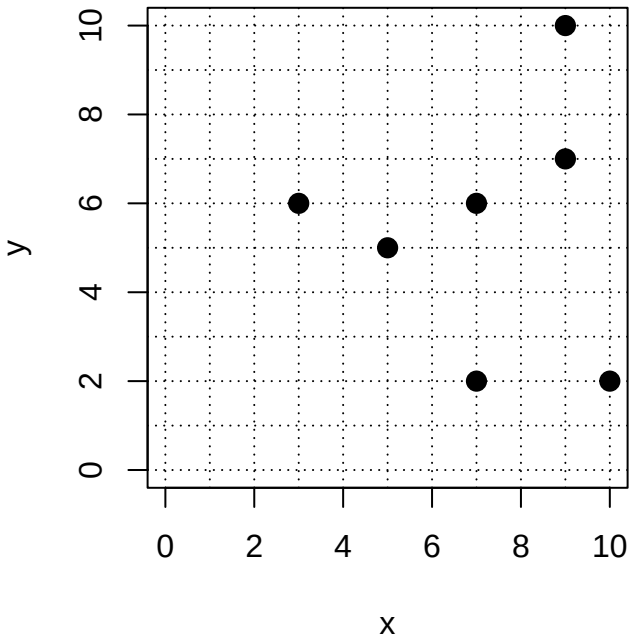
2. A relation is shown as points on a graph.



- Is this relation consistent with y being a function of x? Why or why not?

no

- Is this relation consistent with x being a function of y? Why or why not?

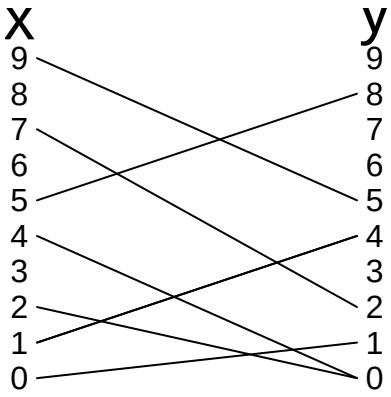
no

- Is this relation consistent with a one-to-one function? Why or why not?

no

Check if Relation is a Function (version 30)

3. A relation is shown with segments connecting elements of two sets.



- Is this relation consistent with y being a function of x? Why or why not?

yes

- Is this relation consistent with x being a function of y? Why or why not?

no

- Is this relation consistent with a one-to-one function? Why or why not?

no

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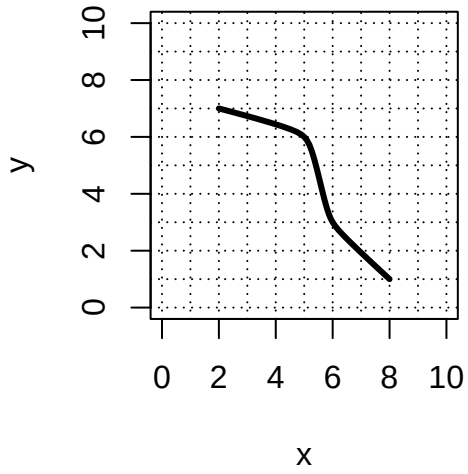
4. A relation is shown as a curve plotted on an x, y



- Is this relation consistent with y being a function of x? Why or why not?

yes

- Is this relation consistent with x being a function of y? Why or why not?

yes

- Is this relation consistent with a one-to-one function? Why or why not?

yes